Carrier®
turn to the experts℠

Tropical R22 220-240V ~ 50Hz 1Ph

Elite
Plasma Green

Hi Wall Split Air Conditioner

53QHET12-708J Heat Pump

OWNER'S MANUAL

Carrier is committed to continuously improving its products according to national and international standards to ensure the highest quality and reliability standards, and to meet market regulations and requirements.

All specifications subject to change without prior notice according to Carrier policy of continuous development.

GL Quality Management System ISO 9001 : 2008 Certificate No.: QS-5519HH

TÜV SÜD Enviromental Management System ISO 14001 : 2004 Certificate No : 12 104 30334 TMS

TÜV SÜD Safety Management System BS OHSAS 18001 : 2007 Certificate No : 12 116 30334 TMS

03502930 **Rev. (0) - 2012**

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Tropical R22 220-240V ~ 50Hz 1Ph

Elite

Plasma Green

Hi - Wall Split Systems

- Plasma Green Technology
- Tropical Compressor
- Super Quiet
- Auto Fan Speed
- Auto Restart Function
- Self diagnostic function
- Active Carbon Electrostatic Filter
- Efficient AMS
- Wireless Control
- Auto Mode
- 3 Minutes Time Delay
- Refrigerant Leak Detection
- Efficient Anti-dust Filters
- Efficient Fans
- Smart Airflow
- Independent Dehu-midification
- Anti-Freezing Protection
- Easy Flexible Installation
- Fashion Design
- Multi-bend Coils
- Vertical Auto Swing
- Turbo Function
- High Temp. Protection
- Easy Fast Maintenance
- LCD Display
- Inner Groove Copper Tubing
- Horizontal Manual Swing
- ECO Function
- Cold Draft Protection
- Cleanable Panel
- Efficient Operation
- Hydrophilic Aluminum Fins
- Temperature Compensation
- Timer Functions
- Defrost Protection
- Washable Air Filter

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1. GENERAL INFORMATION

PRECAUTIONS

Installing and servicing of air conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install or service this equipment.

Untrained personnel can perform basic maintenance function such as cleaning coil and filters. Trained service personnel should perform all other operations.

When working on air conditioning equipment, observe precautions in the literature, tags and labels attached to the unit.

WARNINGS

- **The operating voltage of electrical power supply should be within the voltage mentioned on unit nameplate data.**
- **The capacity of electrical kWh counter should be larger than the operating currents required for air conditioner(s) and any other electrical domestic appliances in use simultaneously from the same supply.**
- **The installation of electrical distribution box after the electrical KWH counter is necessary to properly distribute the electrical loads. The electrical distribution box should be equipped with circuit breakers according to the electrical loads. For each installed air conditioner, a separate circuit breaker with its own overload should be installed on the electrical distribution box.**
- **The installation of two-pole automatic circuit breaker is necessary to operate the air conditioner. The circuit breaker must be installed to be far away from any flammable materials (curtains…etc.). The circuit breaker size must be suitable for air conditioner.**
- **Disconnect the electrical mains supply prior to any maintenance operations or prior to handling any internal unit parts.**
- **The manufacturer declines any liability for damage resulting from modifications or errors in the electrical or refrigerant connections, made during the installation, or from the improper use of this equipment. This will void the unit warranty immediately.**
- **Failure to observe electrical safety codes may cause a fire hazard in case of short circuits.**
- **This system will only work safety and correctly, if installed and tested by qualified personnel.**
- **Do not open the electronic remote controller to avoid possible damage. In case of malfunction contact a qualified service engineer.**
- **The unit contains rotating equipment (fan). Ensure that this is out of reach for children.**
- **Be conscious of the room temperature and general comfort, particularly when this is used near children, senior or handicapped people.**
- **For correct use, the air conditioner must operate within the temperature limits indicated in the table "Operating Limits" included in the installation manual. Incorrect use of the system outside these limits may cause malfunction and dripping water.**
- **Controller batteries contain polluting elements. When exhausted, they must be disposed of in accordance with local requirements.**
- **Do not switch off the split system by disconnecting the electric power supply.**
  The system must always be switched off using the remote control.

2. SYSTEM SAFETY PROTECTIONS

The air conditioner is equipped with complete safety protections to ensure safe operation of air conditioner at different operating conditions :

2.1 Safety protections for Cool Only System

	Auto Restart Feature with backup memory. **When the power failure is happened during the air conditioner operation, the microprocessor of printed circuit board will memorize the operation setting. After the power is recovered, the air conditioner operates automatically (without remote control after elapse of compressor time delay), according to the previous operation settings.**
	3 (Three) minutes time delay between compressor turning off and turning on for compressor protection against cycling.
	Anti-freezing protection of indoor coil when the system is operating in cool mode with excessive dirt on the indoor coil and / or clogged air filters and when the air conditioner is operating in cool mode at low ambient temperature.
	Smart self-diagnostic function for malfunctions detection for fast easy service and maintenance.
	Smart refrigerant leak detection by sensitive sensors mounted on the indoor and outdoor coils for fast easy service and maintenance.

2.2 Safety protections for Heat Pump System

	Auto Restart Feature with backup memory. **When the power failure is happened during the air conditioner operation, the microprocessor of printed circuit board will memorize the operation setting. After the power is recovered, the air conditioner operates automatically (without remote control after elapse of compressor time delay), according to the previous operation settings.**
	3 (Three) minutes time delay between compressor turning off and turning on for compressor protection against cycling.
	Anti-freezing protection of indoor coil when the system is operating in cool mode with excessive dirt on the indoor coil and / or clogged air filters and when the air conditioner is operating in cool mode at low ambient temperature.
	High temperature protection of outdoor coil when the air conditioner is operating in cool mode.
	Cold draft protection when the system is operating in heat mode. **When starting heat mode, the fan speed is regulated automatically from the lowest grade to the preset level, according to the temperature rise of indoor coil. This function can prevent cold air blowing out at the beginning of heat modem which avoids the discomfort to the user.**
	High temperature protection of indoor coil when the air conditioner is operating in heat mode.
	Defrost protection of outdoor coil when the air conditioner is operating in heat mode at very low ambient temperature.
	Smart self-diagnostic function for malfunctions detection for fast easy service and maintenance.
	Smart refrigerant leak detection by sensitive sensors mounted on the indoor and outdoor coils for fast easy service and maintenance.

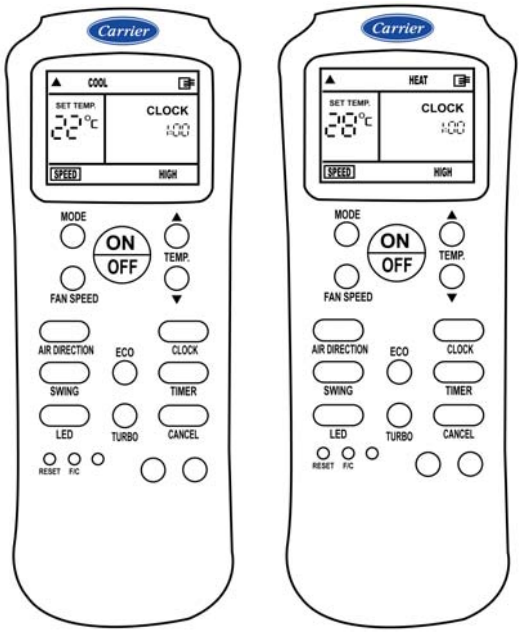
3. TIPS OF ENERGY SAVING AND OPTIMUM COMFORT

In Summer

- **Keep room temperature to comfort levels.**
- **Don't remain in direct contact with cold air for a long period. This is harmful to health.**
- **Don't wait until it is too hot. Turn the air conditioner for cooling before that.**
- **Don't exaggerate on the temperature intensity, too cold. Extreme temperatures are harmful to your health and waste energy.**

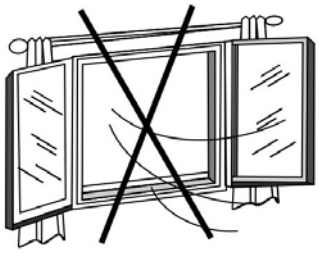
In Winter

- **Keep room temperature to comfort levels.**
- **Don't remain in direct contact with warm air for a long period. This is harmful to health.**
- **Don't wait until it is too cold. Turn the air conditioner for heating before that.**
- **Don't exaggerate on the temperature intensity, too hot. Extreme temperatures are harmful to your health and waste energy.**

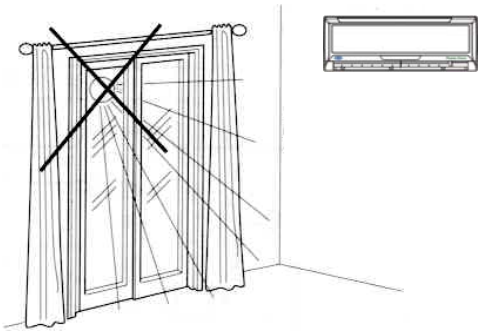


COOL mode **HEAT mode**

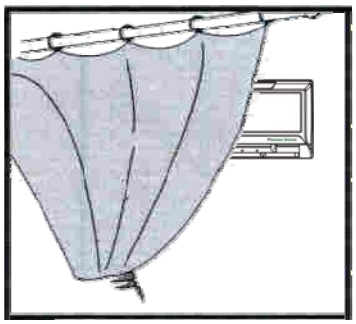
Keep doors, windows and any other openings closed to prevent the conditioned air from escaping and to prevent un conditioned air from entering the space to be air conditioned.



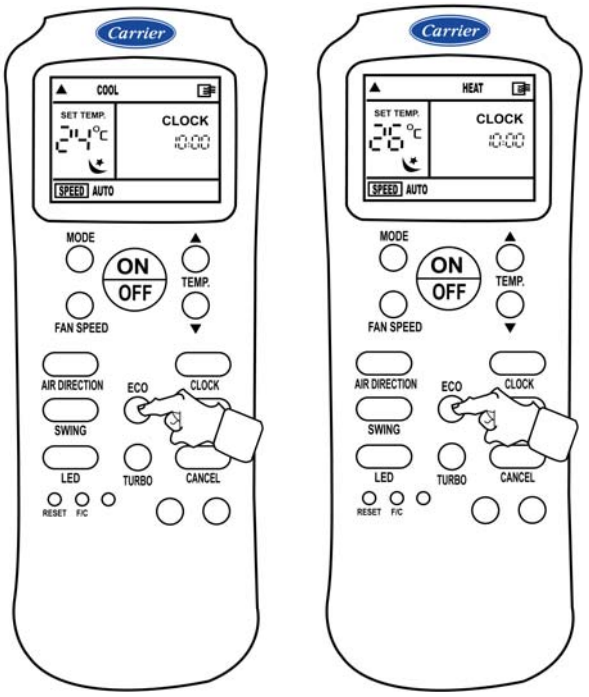
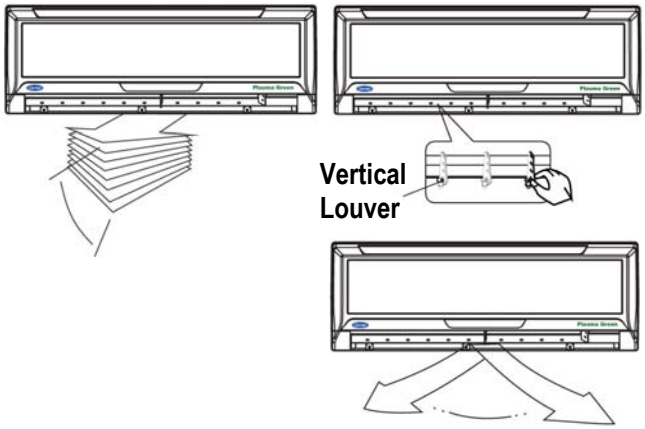
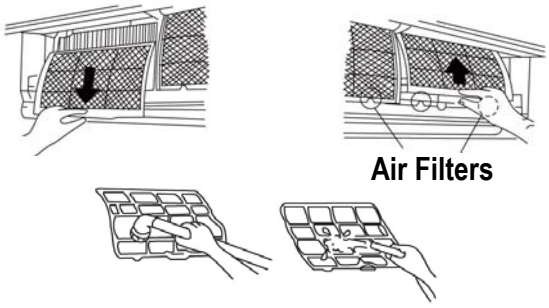
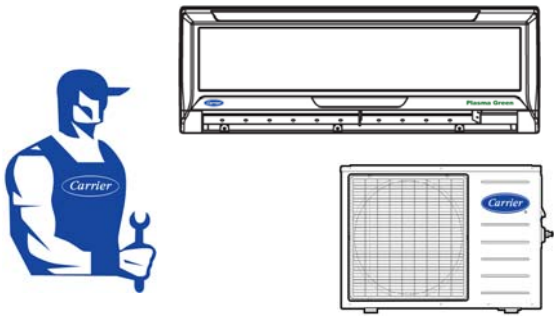
When in cooling, avoid direct sun in the room to be air-conditioned, if possible shut curtains or shades.



Keep doors, furniture or any other obstructions away from blocking return air and / or supply air of the indoor unit to assure maximum efficiency and adequate air circulation.

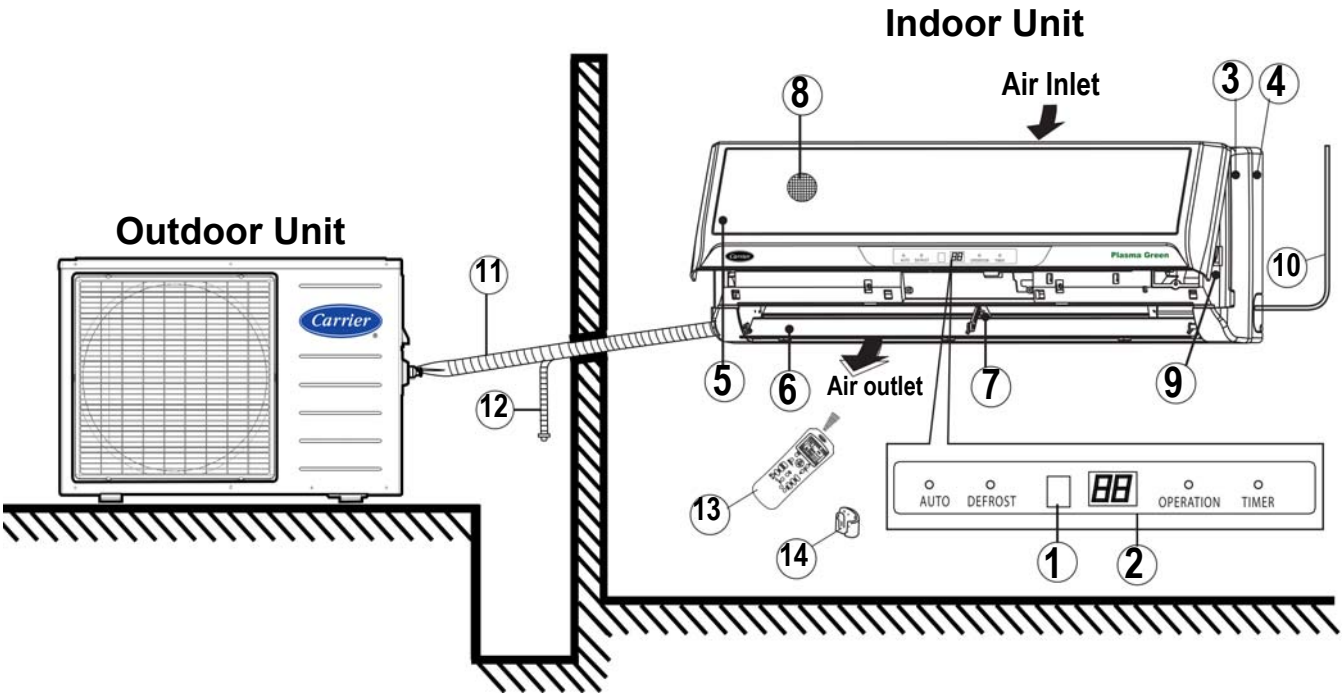


TIPS OF ENERGY SAVING AND OPTIMUM COMFORT (Cont.)

Use ECO function during sleep for energy saving, comfortable and healthy sleep during COOL mode or HEAT mode.	 **COOL mode With ECO function** **HEAT mode With ECO function**
Ensure a uniform air circulation in the room to be air conditioned **(1) by using SWING function or AIR DIRECTION function on the remote control.** **(2) by manual adjustment of vertical supply air louvers to right or left as per the requirement.**	
Clean periodically air filters of indoor unit every month to assure adequate air circulation and maximum cooling and heating efficiency.	
Periodic service and maintenance of the air conditioner or upon customer request through Carrier or Carrier authorized dealer to assure maximum cooling and heating efficiency.	

4. SPLIT SYSTEM DESCRIPTION

Split System Models Size 12K

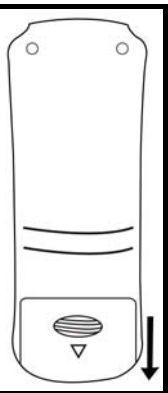


1: Remote control signal receiver.	2: LCD Display panel
3: Panel frame	4: Chassis
5: Front panel	6: Horizontal supply air louver
7: Vertical supply air louvers	8: Air filters
9: Manual control button	10: Power cord
11: Inter-connecting refrigerant piping and electrical cables between indoor and outdoor units.	12: Drain hose
13: Wireless remote control	14: Plastic holder of remote control

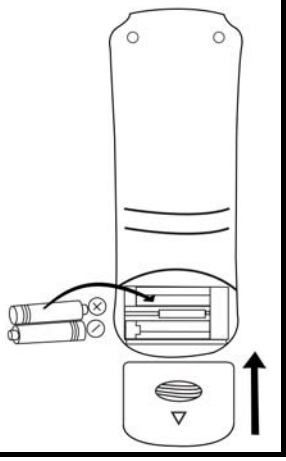
5. CONSIDERATIONS FOR REMOTE CONTROL

5-1 HOW TO INSERT BATTERIES :

(a) Remove the cover of battery compartment at the back of the remote control by pressing the tab toward outside, in the direction of the arrow.

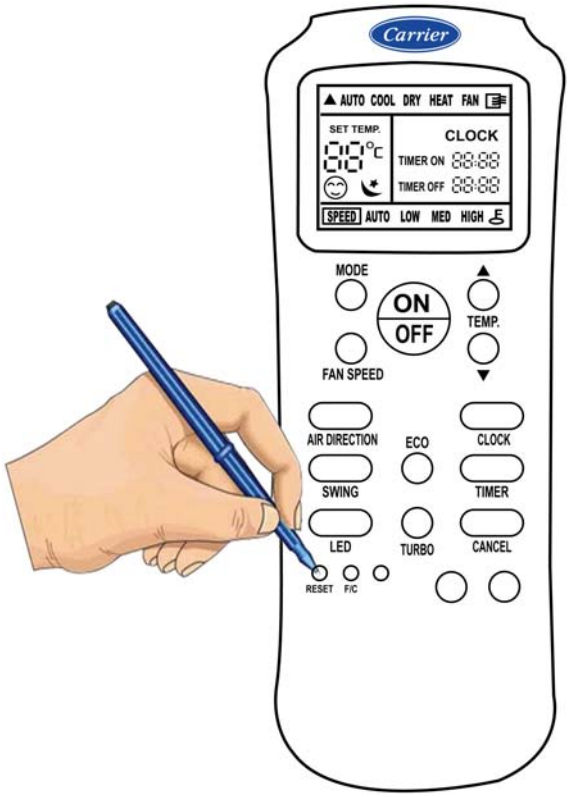


(b) Mount two batteries size AAA 1.5 Volt supplied with the remote control. Then close the cover of the battery component.



Note:
During mounting of batteries check battery symbols (+, -) indicated in batteries compartment.

(c) Press the button (at the front of remote control) with an object not sharp to operate the remote control.



NOTES

1. The remote control uses two alkaline batteries (1.5 Volts) .
2. Do not use old batteries or batteries of different types, as this may cause the remote control to malfunction.
3. If you do not use the remote control for more than a few weeks, please remove the batteries. Other wise battery leakage may damage the remote control.
4. The average battery life during normal use is approximately half a year.
5. Replace the batteries when there is no receiving beep coming from the indoor unit or transmission indicator ▲ on the remote control fails to light.
6. Batteries should only be replaced after turning OFF the air conditioner.

REMOTE CONTROL INSTALLATION (Cont.)

5-2 INSTRUCTIONS OF USING WIRELESS REMOTE CONTROL

1- The remote control must be directed toward the receiver of indoor unit when pressing the buttons of the desired functions. An acoustical acknowledgement sound (beep) will indicate that signal has been received.

2- Avoid direct sunlight on the receiver of indoor unit, which may interfere with good signal reception and the air conditioner may not work properly. Draw the curtains to avoid direct sunlight.

3- Avoid obstacles obstructions such as curtains, doors or other materials between the remote control and the receiver of indoor unit to avoid blocking the signals from the remote control to the indoor unit.

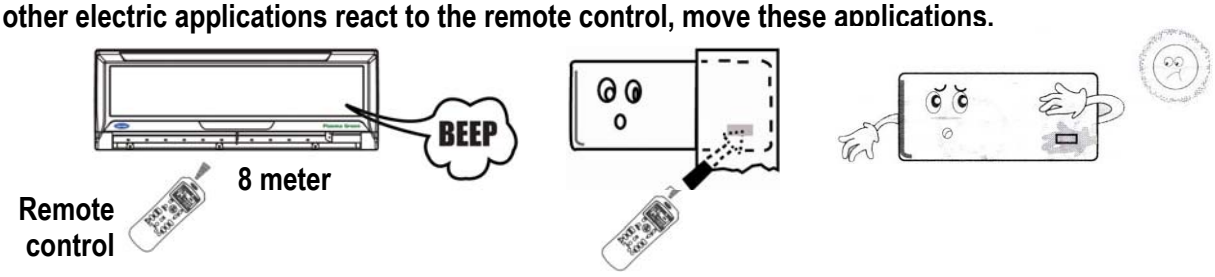
4- The maximum operating distance for the remote control is approximately 8 meters.

5- Keep the remote control away from water. Do not let the remote control fall down.

6- Never use objects with sharp point to press the button on the remote control.

7- Prevent any liquid from falling into the remote control.

8- If other electric applications react to the remote control, move these applications.



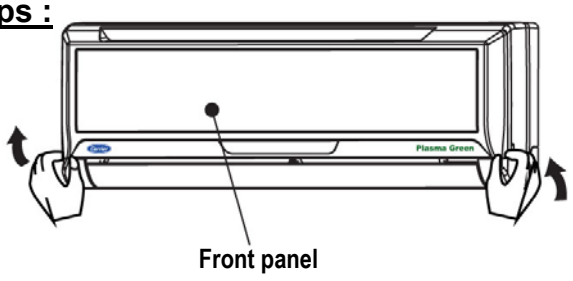
8. DESCRIPTION OF EMERGENCY BUTTON

EMERGENCY FUNCTION

Emergency function can be used temporarily in case you cannot find the remote control or its batteries are exhausted.

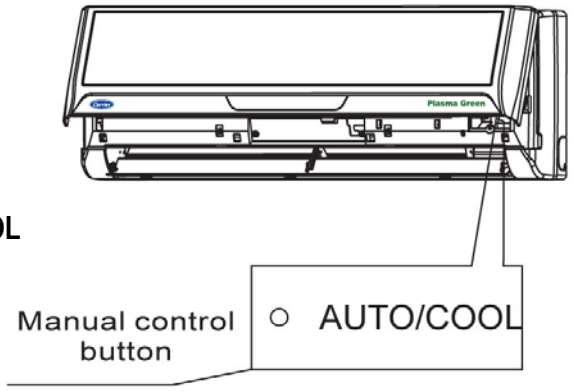
To perform Emergency function, follow below steps :

1. Open and lift the front panel up to an angle until it remains fixed with a clicking sound.
2. Press manual control button (AUTO / COOL) until AUTO led **AUTO** illuminates on the display panel of the indoor unit.
   then the unit will work in forced AUTO mode (the default setting temperature is 24°C).
3. Close the panel firmly to its original position.



⚠ CAUTION

- Once you press the manual control button (AUTO / COOL), the operation mode is shifted in an order as :
  AUTO → Forced COOL → OFF
- Push the manual control button to operate in forced COOL mode, this is used for testing purposes only. You had better not choose it.
- The Forced COOL mode is used only for testing purposes by the installer and serviceman.
- To restore the remote control operation, use the remote controller directly.



CLOCK ADJUSTING FUNCTION

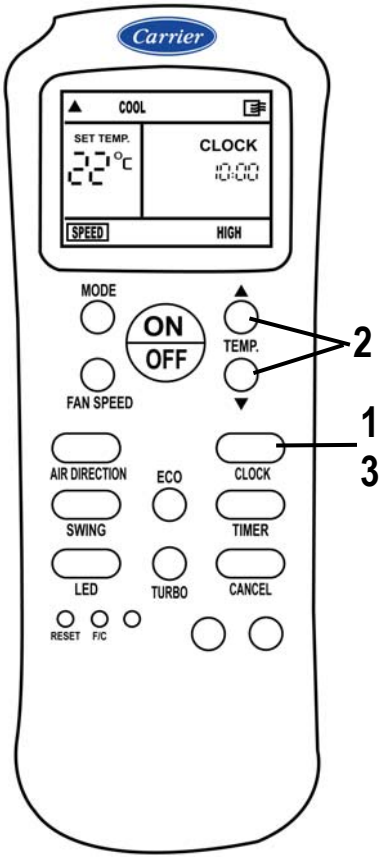
Initial Setting or the Clock

When batteries are inserted in the remote control, the clock panel will display ‘’12:00’’ and being to flash.

Setting the clock

Before you start operating the air conditioner, set the clock of the remote control using the procedures given in this section.
The clock display on the remote controller will show the time regardless of whether the air conditioner is in use or not.

1. **With the remote control ON or OFF,**
   Press CLOCK for about 3 seconds, the clock time display will start to flash.
2. **TEMP. button**
   - **Press this button to set time.**
     ▲ **Forward**
     ▼ **Backward**
   - **Each time you press the button, the time moves forward or backward by one minute depending on which side you press.**
     The time alters as quickly as you press the button.
   - **Keep pressing the button without releasing, the time moves forward or backward by 10 minutes depending on which side you press.**
3. **CLOCK button**
   When the right time is achieved, press the CLOCK button or release the ▲ or ▼ and wait for 3 seconds, the clock time stops flashing and the clock starts
4. **Readjusting the Clock**
   Press the CLOCK button on the remote controller for about 3 seconds, the time of the clock display will start to flash. To set the new time, follow 1 and 2 of "Initial Setting of the Clock".



NOTES

*** The clock time must be set before operating TIME functions.**
*** The clock time cannot be adjusted during TIME operation.**

*** Clock accuracy is within 15 seconds per day.**

⚠ CAUTIONS

Static electricity or other factors (voltage transients) can cause remote controller clock initialise.
If your remote controller is initialised readjust the clock before you start operation.

COOL MODE

START

1. Press MODE button to select COOL mode on the remote control display.

2. Press TEMP buttons ▲ or ▼ to select the set temperature on the remote control display.

   Set desired temp. between 17°C and 30°C.

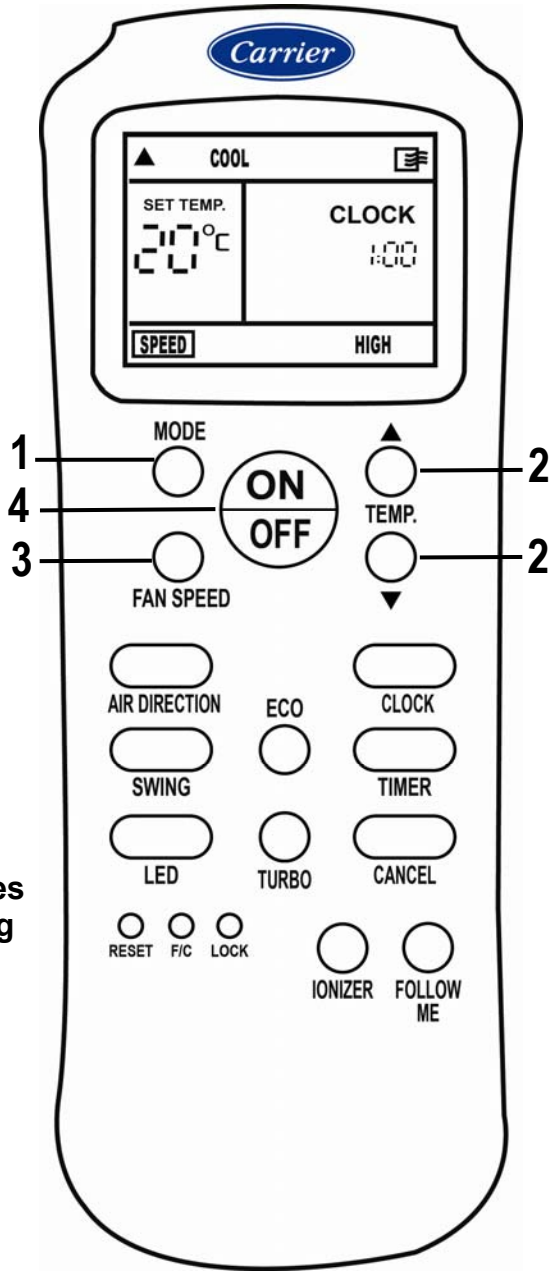
3. Press FAN SPEED button to select the desired fan speed on the remote control display.

4. Press ON/OFF button to start the air conditioner.

   ON symbol appears on the remote control display.

   OPERATION led will illuminate on the display panel of indoor unit.

   COOL mode starts after approximately 3 minutes and Plasma operates for refeshing air, removing smoke and dust particles. Plasma gives an immediate sensation of energy and well-being.



STOP

If you want to stop the air conditioner, Press ON/OFF button again.

NOTES

- If the room temperature is higher than the selected temperature, the system will start COOL mode.
- If the room temperature is equal to or less than the selected temperature, the system will stop COOL mode.
- If you use AUTO fan speed with COOL mode, the fan speed changes automatically to low or medium or high speed based on the temperature difference between setting temperature and room temperature.

HEAT MODE

START

1. Press MODE button to select HEAT mode on the remote control display.

2. Press TEMP buttons ▲ or ▼ to select the set temperature on the remote control display.

   Set desired temp. between 17°C and 30°C.

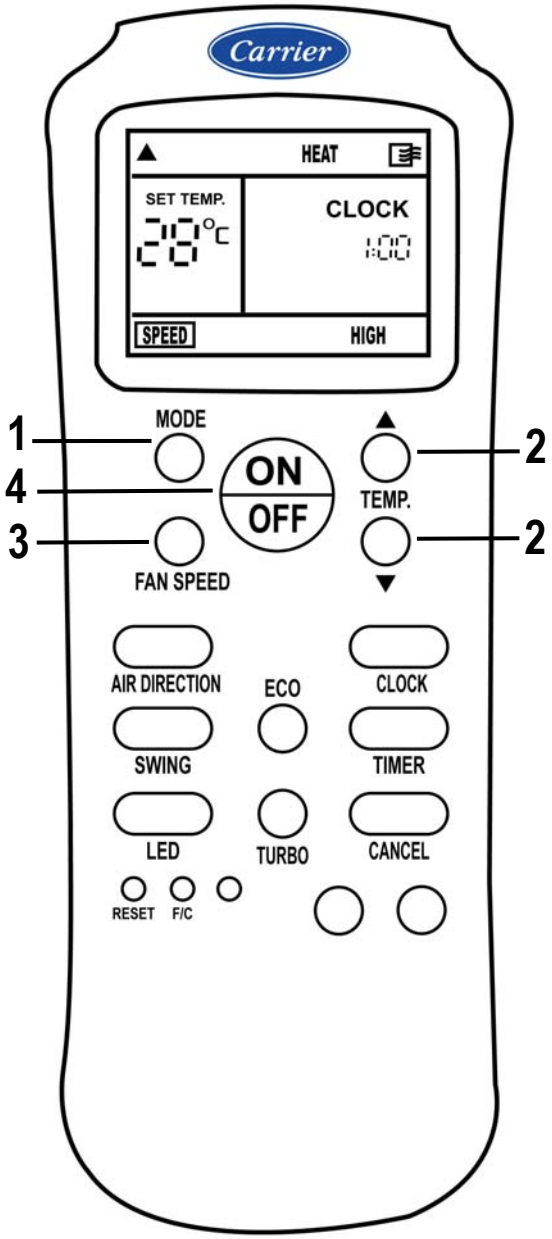
3. Press FAN SPEED button to select the desired fan speed appears on the remote control display.

4. Press ON/OFF button to start the air conditioner.

   ON symbol appears on the remote control display.

   OPERATION led will illuminate on the display panel of indoor unit.

   HEAT mode starts after approximately 3 minutes and Plasma operates for refeshing air, removing smoke and dust particles. Plasma gives an immediate sensation of energy and well-being.



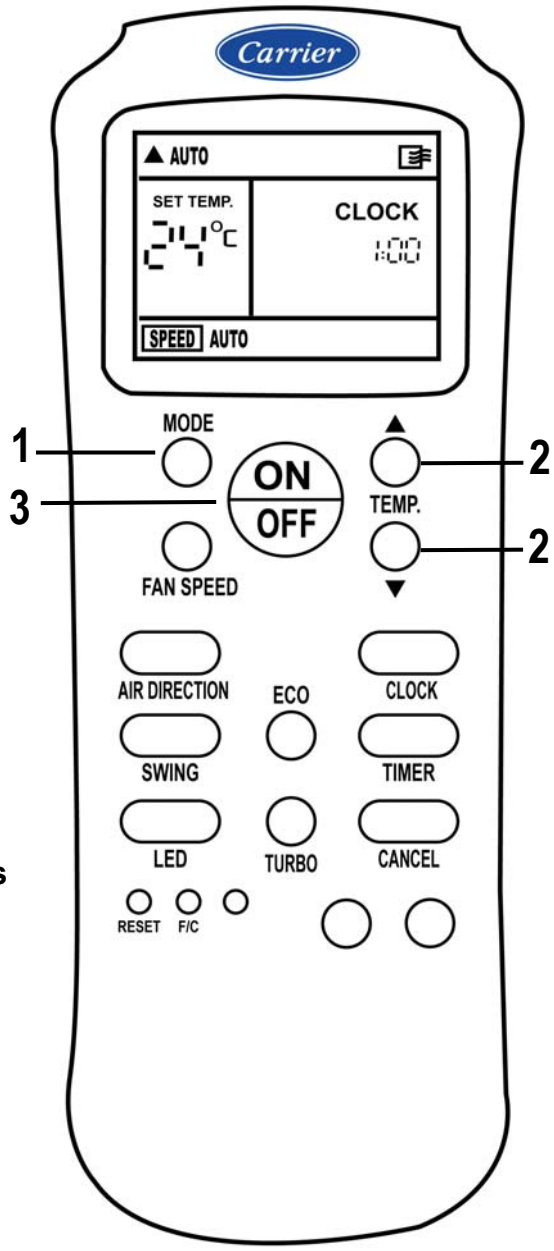
STOP

If you want to stop the air conditioner, Press ON/OFF button again.

NOTES

- If the room temperature is lower than the selected temperature, the system will start HEAT mode.
- If the room temperature is equal to or higher than the selected temperature, the system will stop HEAT mode.
- If you use AUTO fan speed with HEAT mode, the fan speed changes automatically to low or medium or high speed based on the temperature difference between setting temperature and room temperature.

AUTO MODE



START

1. Press MODE button to select AUTO mode on the remote control display.

2. Press TEMP buttons ▲ or ▼ to select the set temperature on the remote control display.

   Set desired temp. between 17°C to 30°C .

3. Press ON/OFF button to start the air conditioner.

   ON symbol appears on the remote control display.

   OPERATION led will illuminate on the display panel of indoor unit.

   AUTO mode led AUTO will illuminate on the display panel of the indoor unit.

   AUTO mode starts after approximately 3 minutes and Plasma operates for refeshing air, removing smoke and dust particles. Plasma gives an immediate sensation of energy and well-being.

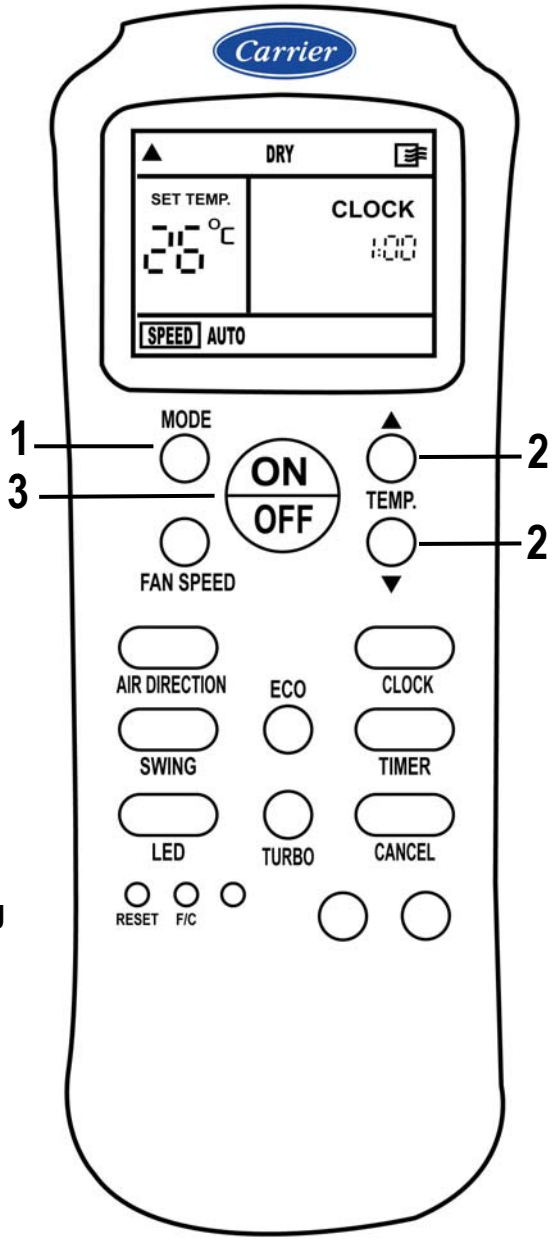
STOP

If you want to stop the air conditioner, Press ON/OFF button again.

NOTES

1. For Heat Pump System
   When Auto mode is activated, the air conditioner changes the operation mode automatically to cool or heat or fan only mode and also changes fan speed to auto speed by sensing the temperature difference between room temperature and set temperature.
2. For Cool Only System
   When Auto mode is activated, the air conditioner changes the operation mode automatically to cool or fan only mode and also changes fan speed to auto speed by sensing the temperature difference between room temperature and set temperature.
3. In the Auto mode, you cannot switch the fan speed. It has already been automatically controlled.
4. If the Auto mode is not comfortable for you , the desired mode can be selected manually.
5. If the ECO function is activated when the unit is operating in Auto mode, the fan speed will change into Low speed mode immediately.

DRY MODE



START

1. Press MODE button to select DRY mode on the remote control display.

2. Press TEMP buttons ▲ or ▼, to select the set temperature the remote control display.

   Set desired temp. between 17°C to 30°C .

3. Press ON/OFF button to start the air conditioner.

   ON symbol appears on the remote control display.

   OPERATION led will illuminate on the display panel of indoor unit.

   DRY mode starts after approximately 3 minutes and Plasma operates for refeshing air, removing smoke and dust particles. Plasma gives an immediate sensation of energy and well-being.

STOP

If you want to stop the air conditioner, Press ON/OFF button again.

NOTES

- In DRY mode, you can not switch the indoor indoor fan speed.
  The indoor fan speed will be automatically selected AUTO.
- The DRY mode will automatically select the drying operation based on the difference between the set temperature and the actual room temperature.
- The temperature is regulated while dehumidifying by repeating turning on and off of the cooling operation or fan only.

FAN ONLY MODE

START

1. Press MODE button to select FAN mode on the remote control display.

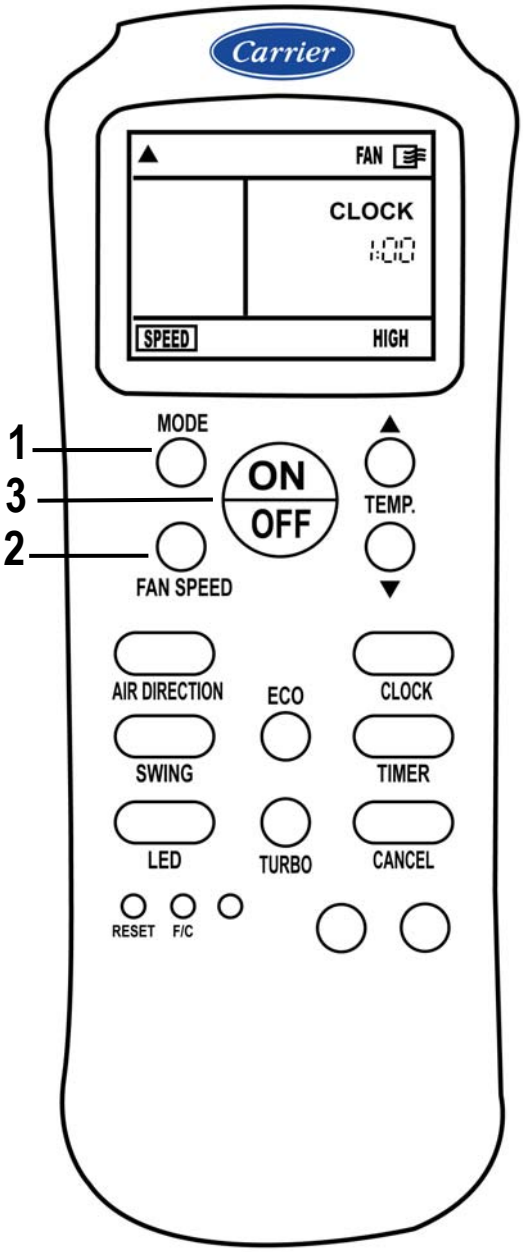
2. Press FAN SPEED button to select the desired fan speed on the remote control display.

3. Press ON/OFF button to start the air conditioner.

   ON symbol appears on the remote control display.

   OPERATION led will illuminate on the display panel of indoor unit.

   FAN ONLY mode starts immediately.



STOP

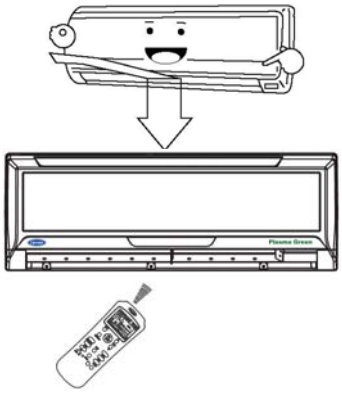
If you want to stop the air conditioner, Press ON/OFF button again.

NOTES

- In FAN mode, the unit will start immediately.
- FAN mode does not control temperature. The setting temperature is not displayed on the remote control display.

AIR FLOW DIRECTION CONTROL

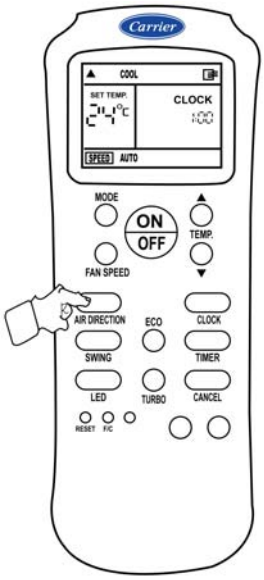
- Air is supplied into the room through the supply air louvers located on the bottom of the indoor unit.
- Air from the room is drawn into the indoor unit through the front panel and filters which are located behind the front panel.
- Make absolutely sure that the supply and return air flow of the indoor unit are not obstructed (even partially).



- Adjust supply air direction properly otherwise, it might cause discomfort or cause uneven room temperatures.
- Adjust the horizontal louver using the remote control.
- Adjust the vertical louvers manually.

AIR DIRECTION FUNCTION

The air conditioner automatically adjusts the vertical supply air direction in accordance with the operating mode.



To set the vertical supply air direction (Up- Down)

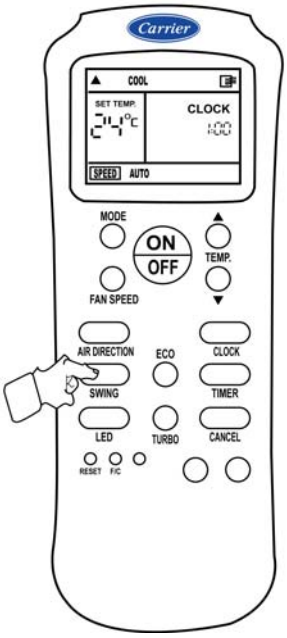
- Perform this function while the unit is in operation.
- Keep pressing the **AIR DIRECTION** button on the remote control to move the louver to the desired.
- In subsequent operations, the vertical air flow is automatically set in the direction to which you adjusted the louver by pressing the **AIR DIRECTION** button.

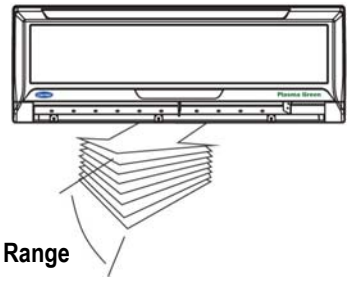
SWING FUNCTION

To automatically swing the horizontal louvers for the vertical supply air direction (Up- Down)

Perform this function while the air conditioner is in operation.

- Press **SWING** button on the remote control without releasing for 2 more seconds, the horizontal louver would swing automatically. To stop the function, press **SWING** button again.



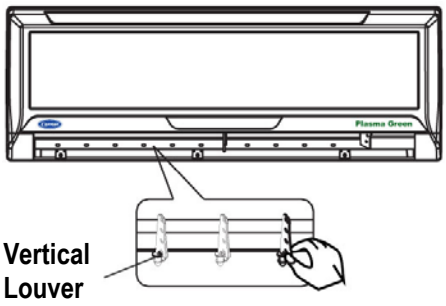


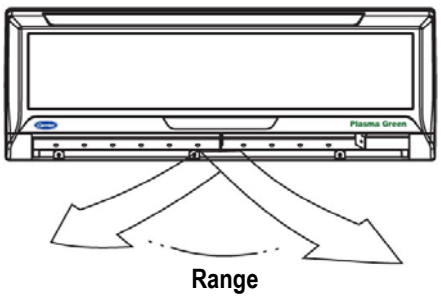
CAUTION ⚠

- **The AIR DIRECTION and SWING buttons will be disabled when the air conditioner is not in operation (including when the TIMER ON is set).**
- **Do not operate the air conditioner for long periods with the supply air direction set downward in cooling or dry mode. Otherwise, condensation may occur on the surface of the horizontal louver causing moisture to drop on to the floor or on furnishings.**
- **Do not move the horizontal louver manually. Always use AIR DIRECTION button or SWING button. If you move horizontal louver manually, it may malfunction during operation. If the louver malfunctions, stop the air conditioner once and restart it.**
- **When the air conditioner is started immediately after it was stopped, the horizontal louver might not move for approximately 10 seconds.**
- **Open angle of the horizontal louver should not be set too small, as cooling or heating performance may be impaired due to too restricted air flow area.**
- **Do not operate unit with horizontal louver in closed position.**
- **When the air conditioner is connected to power (initial power), the horizontal louver may generate a sound for 10 seconds, this is a normal operation.**

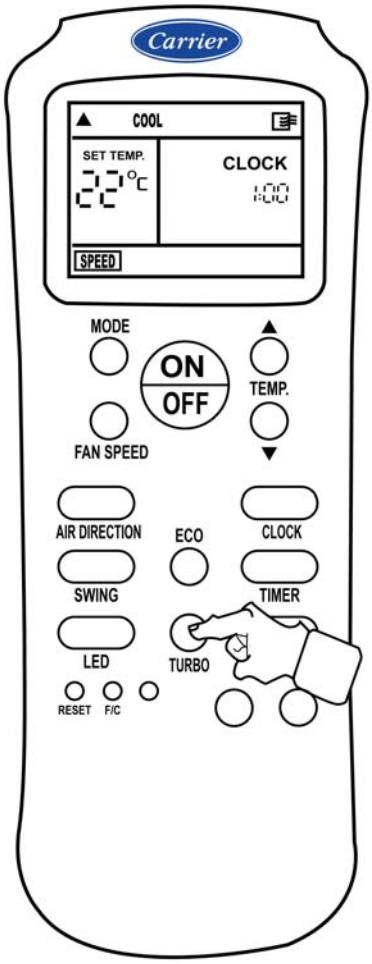
To set the horizontal supply air direction (left - right)

- **Adjust the vertical louvers manually using the lever on the vertical louver arm.**
  Take care not to catch fingers on the fan, horizontal louver or to damage vertical louvers.
  When the air conditioner is in operation and the horizontal louver is in a specific position, move the lever of vertical louvers to right or left to adjust horizontal supply air.





TURBO FUNCTION



TURBO function with COOL mode :

- If you want faster cooling at super high airflow, super high fan speed to reach the set temperature in the shortest time, Press **TURBO** button.
- Turbo function will give faster cooling as super high fan speed for about 30 minutes.
  After 20 minutes, the fan speed will revert back to the previous set fan speed.

NOTES:

- To cancel **TURBO** function, Press again **TURBO** button.
- In **TURBO** function, the fan speed can be adjusted.
- **TURBO** Function is not available with **ECO** function.
- Under cooling mode (except Force Cooling mode), the indoor fan motor will run in Turbo speed when receive the signal from remote control, and will get back to the presetting speed when receive again.
- **TURBO** function will cancel and indoor fan motor will get back to the presetting speed when one of following condition occur :
  a. mode changed.
  b. get into Force Cooling mode.
  c. turn off the air conditioner.

USE OF REMOTE CONTROL (Cont.)

ECO Function

ECO function is useful when you go to sleep.
Carrier air conditioner automatically controls the selected temperature and consequently controls the room temperature to avoid overcooling or overheating and to have comfortable and healthy sleep.

ECO function with COOL Mode

If you want to operate ECO function with Cool mode to save energy and maintain the most comfortable temperature during COOL mode, apply the following steps :

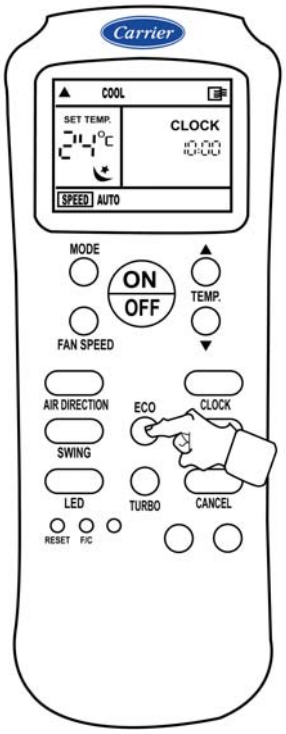
Start:

Press ECO button to activate ECO function.

- **The fan speed will automatically change to low speed.**
- **The set temperature will be automatically increased by 1°C after 1 hour after COOL mode is selected.**
- **Then the set temperature will be automatically increased by another 1°C after additional 1 hour.**
- **This new temperature will be maintained.**

Stop:

If you want to cancel ECO function, press any other button.



ECO function with COOL mode

ECO function with HEAT Mode

If you want to operate ECO function with Heat mode to save energy and maintain the most comfortable temperature during HEAT mode, apply the following steps :

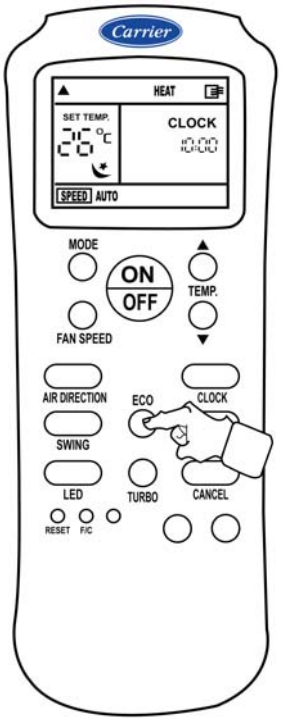
Start:

Press ECO button to activate ECO function.

- **The fan speed will automatically change to low speed.**
- **The set temperature will be automatically decreased by 1°C after 1 hour after HEAT mode is selected.**
- **Then the set temperature will be automatically decreased by another 1°C after additional 1 hour.**
- **This new temperature will be maintained.**

Stop:

If you want to cancel ECO function, press any other button.



ECO function with HEAT mode

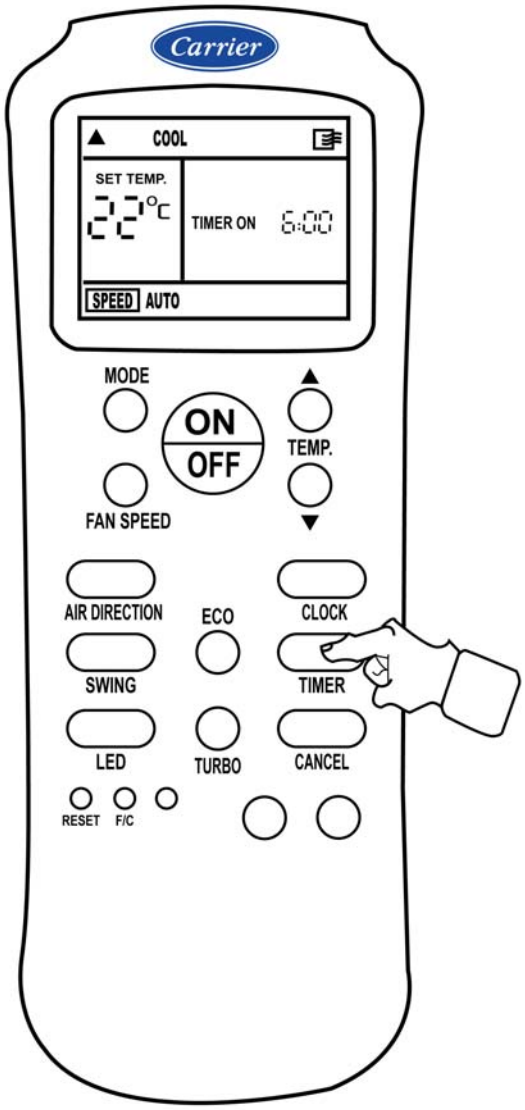
Notes:

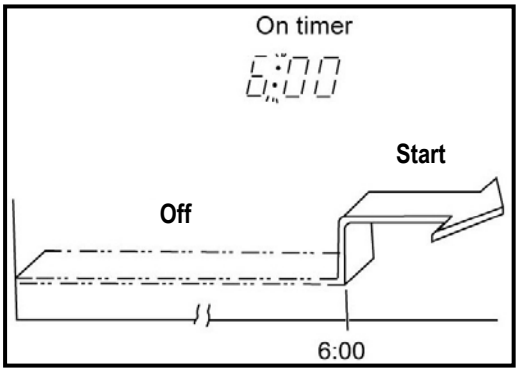
1. **ECO function is only available with COOL, HEAT and AUTO mode.**
2. **When activating ECO function in AUTO mode, the set temperature will be automatically increased by 1°C after AUTO mode is selected.**
   If it is under cooling mode, the temperature will decrease 1°C, if it is under heating mode, the set temperature will be changeless.

USE OF REMOTE CONTROL (Cont.)

TIMER ON FUNCTION (Off → Start Operation)

TIMER ON function is useful when you want to start automatically the air conditioner at a desired setting time when you wake up in the morning or when you return home.





Example:

To automatically start the air conditioner at 6:00 in the morning Proceed with following steps :

(1) Press **TIMER** button until the remote control display shows. **TIMER ON** indicator and the last setting time which is flashing. Now it is ready to reset the setting time of **TIMER ON** function.

(2) To set the desired time, Press **TEMP.** button ▲ (Forward) or ▼ (Backward) unit the time 6:00 is displayed.

- Each time you press there the button, the time moves forward or backward by 10 minutes depending on which one you press. The time alters as quickly as you press the button.

(3) After setting the time for TIMER ON function, the TIMER led TIMER will illuminate on the display panel of the indoor unit.

TO CANCEL TIMER ON FUNCTION

Press CANCEL button if you want to cancel TIMER ON setting.

TO CHANGE TIMER ON SETTING

Perform steps 1, 2 and 3 to change TIMER ON setting.

⚠ CAUTION

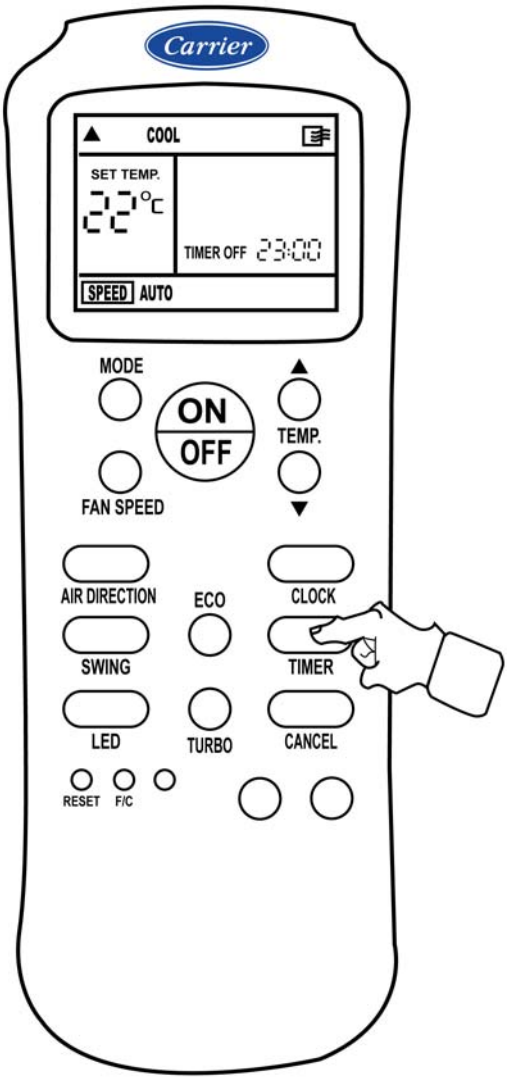
- **When you select the timer operation, the remote control automatically transmits the timer signal to the indoor unit at the specified time. Therefore, keep the remote control in a location from which it can transmit the signal to the indoor unit properly.**
- **The effective operation time set by remote control is limited in 24 hours.**

TIMER OFF FUNCTION (On → Stop Operation)

TIMER OFF function is useful when you want to stop automatically the air conditioner at a desired setting time after you go to bed.

Example :

To automatically stop the air conditioner at 23:00 in the evening proceed with the following steps :



(1) Press TIMER button until the remote control display shows. TIMER OFF indicator and the least setting time which is flashing Now it is ready to reset the setting time of TIMER OFF function

(2) To set the desired time, Press TEMP. button ▲ (Forward) ▼ (Backward) unit the time 23:00 is displayed.

- **Each time you press the button the time moves forward or backward by 10 minutes depending on which one you push. The time alters as quickly as you press the button.**

(3) After setting the time for TIMER ON function, the TIMER led TIMER will illuminate on the display panel of the indoor unit is illuminated.

TO CANCEL TIMER ON FUNCTION

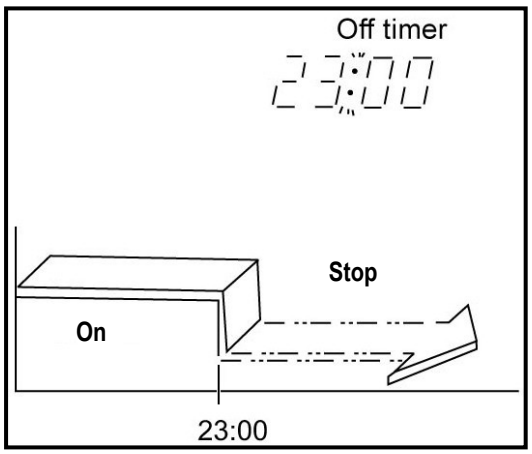
If you want to cancel TIMER OFF setting, Press CANCEL button.

TO CHANGE TIMER ON SETTING

Perform steps 1, 2 and 3 to change TIMER OFF setting.

⚠ CAUTION

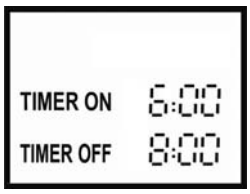
- **When you select the timer operation, the remote control automatically transmits the timer signal to the indoor unit at the specified time. Therefore, keep the remote control in a location from which it can transmit the signal to the indoor unit properly.**
- **The effective operation time set by remote control is limited in 24 hours.**

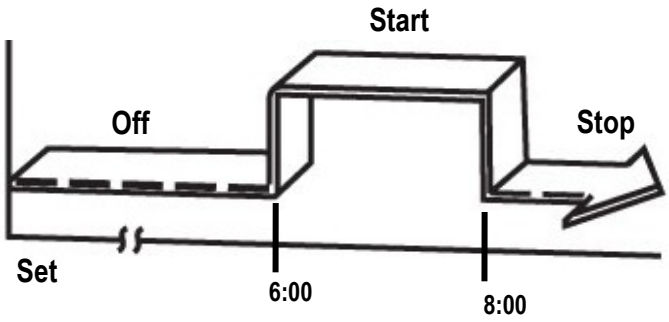


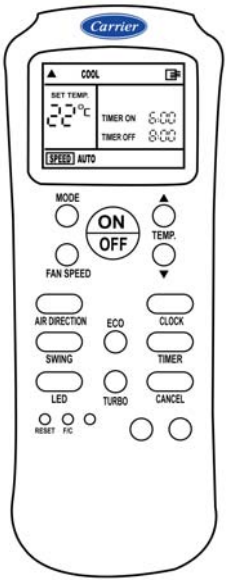
COMBINED TIMER ON → TIMER OFF FUNCTION
(Off → Start Operation → Stop Operation)
You can use this setting to automatically start operation of the air conditioner before you wake up and automatically stop it after you leave the home.

Example:

If you want to start operation of the air conditioner at 6:00 AM the next morning, and stop at 8:00 AM proceed as follows:







1. **Press TIMER button until TIMER ON indicator is displayed and setting time is flashing.**
2. **Use TEMP/TIME button to display "6:00" beside the TIMER ON indicator.**
   Wait 3 seconds, the TIMER ON time will be registered.
3. **Press TIMER button again until TIMER OFF indicator is displayed and setting time is flashing.**
4. **Use TEMP/TIME button to display "8:00" on the TIMER OFF indicator.**
5. **Wait 3 seconds until the setting time stops flashing and this function is activated.**

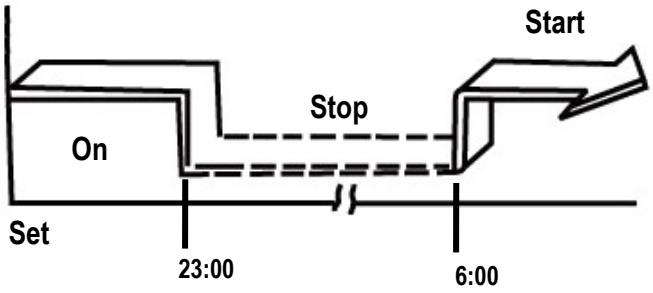
NOTES

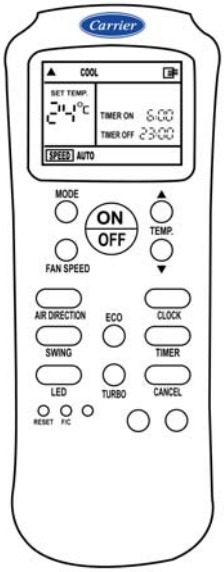
- **If you want to cancel ON or OFF timer setting, press CANCEL button.**
- **The timer function (ON or OFF) which in time is closest to the actual time will be activated first.**
- **If the same time is set for both ON and OFF timers, no timer operation is performed. Also, the air conditioner may stop operating.**

COMBINED TIMER OFF → TIMER ON FUNCTION
(On → Stop Operation → Start Operation)
You can use this setting to automatically stop the air conditioner after you go to sleep and start it automatically again in the morning when you wake up or you return home.

Example:

Now it is 20: o'clock in the evening
If you want to automatically stop operation at 23:00 PM and automatically start again at 6:00 AM in the next morning with the same operating mode, proceed as follows:





To start the air conditioner at 6:00 the next morning, and stop it at 8:00.

1. **Press TIMER button, until TIMER OFF indicator is displayed and the setting time is flashing.**
2. **Use the TEMP/TIME button to display "23:00" beside the TIMER OFF indicator of the remote control.**
   Wait 3 seconds, the TIMER OFF time will be registered.
3. **Press TIMER button again until TIMER ON indicator is displayed and setting time is flashing.**
4. **Use TEMP/TIME button to display "6:00" beside the TIMER ON indicator.**
5. **Wait 3 seconds until the setting time stops flashing and this function is activated.**

NOTES

- **If you want to cancel ON or OFF timer setting, press CANCEL button.**
- **The timer function (ON or OFF) which in time is closest to the actual time will be activated first.**
- **If the same time is set for both ON and OFF timers, no timer operation is performed. Also, the air conditioner may stop operating.**

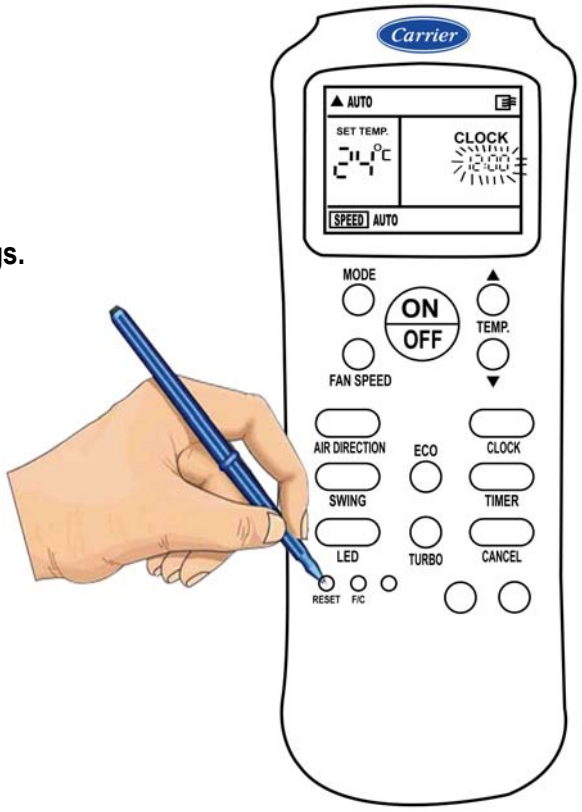
USE OF REMOTE CONTROL (Cont.)

RESET Function

When you press the recessed RESET button, all current settings are cancelled and return to original factory settings.

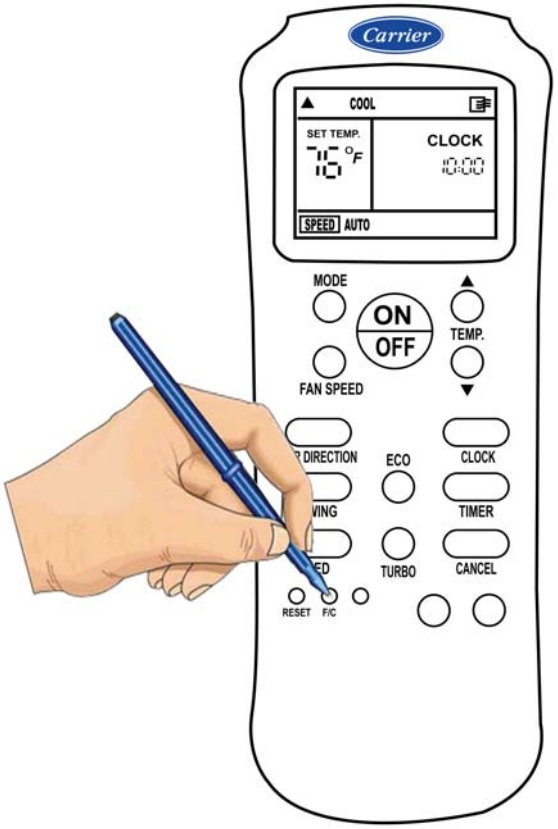
- **The clock time "12:00" will flash**
- **The mode displays "AUTO"**
- **The fan speed displays "AUTO"**
- **The temperature displays "24"**

Note : You will need to reprogram the clock setting after Pressing RESET button



F/C Function

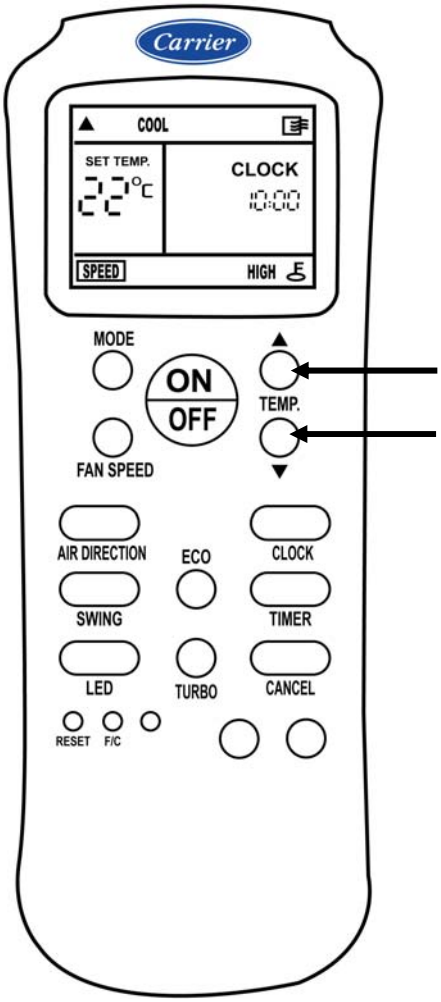
Used to select / display temperature settings in either " Celsius " or Fahrenheit. Press this button to select either the Celsius or Fahrenheit scale.



USE OF REMOTE CONTROL (Cont.)

LOCK Function

1. Use **LOCK** function when you want to prevent settings from being changed accidentally.
2. When you press **TEMP. ▲** and **▼** buttons as the same time, all current settings are locked in and the remote control does not accept any operation except that of the **LOCK**.
3. A **LOCK** symbol will appear on the bottom right hand sides of the remote control display when the **LOCK** function is activated.
4. If you want to cancel **LOCK** function,
   Press again **TEMP. ▲** and **▼** buttons as the same time.



8. AIR FILTERS CLEANING

The air filters behind the front panel of the indoor unit should be checked and cleaned every month. Clogged air filters will reduce cooling and heating efficiency.

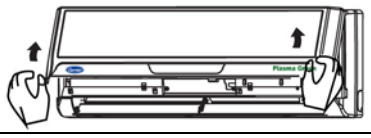
⚠ **WARNING:**

It is necessary to stop the air conditioner and disconnect the power supply before cleaning air filters.

Standard Air Filters	**(1) Main air filters for dust removal** **(2) Active Carbon / Electrostatic air filter for odors & microscopic dust removal respectively** **(3) Plasma dust collector filter for dust, smoke and pollen particles.**

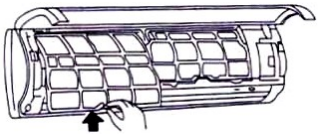
- **STEPS FOR CLEANING AIR FILTERS :**

1. Lift the front panel of indoor unit with both hands up to an angle until it stops with a clicking sound.

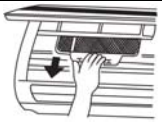


2. Take hold of the handle of the man air filter and lift it up slightly to take ot out from the filter holder then pull it downwards.

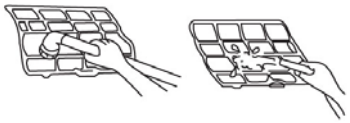
⚠ **Do not touch Plasma dust collector filter within 10 minutes after opening front panel, it may cause an electric shock.**



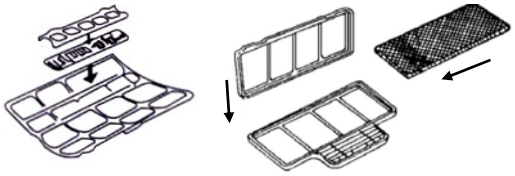
3. Remove Active Carbon / Electrostatic air filter and Plasma dust collector air filter as shown in the figure.



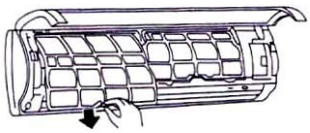
4. Clean the main filters with a vacuum cleaner or water then dry it up in cool space. Clean Carbon / Electrostatic air filter with a vacuum cleaner.



5. Install Active Carbon / Electrostatic air filter back into position. Install Plasma dust collector air filter back into position.



6. Insert the upper portion of the main air filter back into the unit taking care that the left and right edges line up correctly and place filter into position.



NOTES

(1) To establish, how frequently the air filters should be cleaned, the operating conditions must be taken in to account.

(2) The operating life of active carbon / electrostatic air filter is two years.

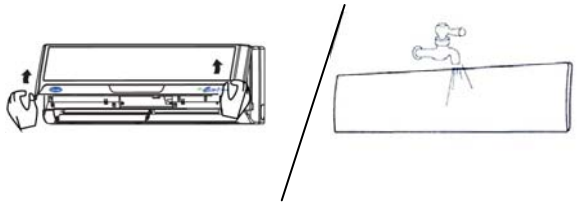
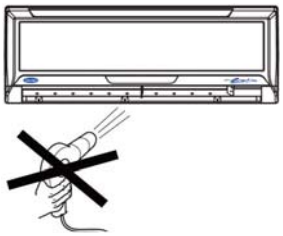
(3) Before operating the air conditioner, check that air filters are in their places inside unit.

9. INDOOR UNIT CLEANING

⚠ **Warning!**

The indoor unit must be disconnected from the main supply before indoor unit cleaning.

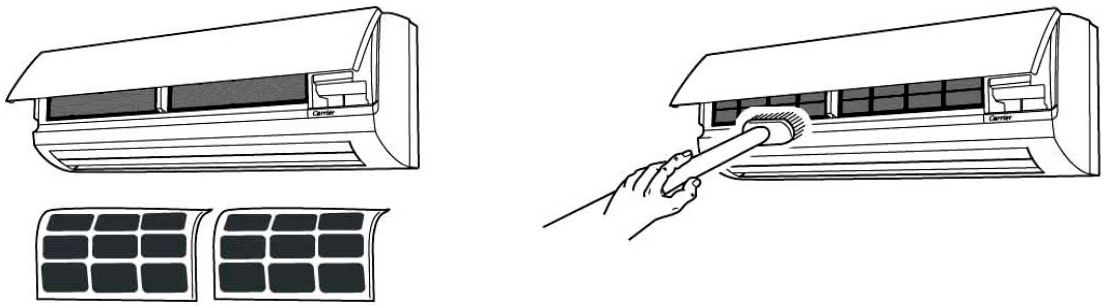
9-1 INDOOR UNIT CLEANING

Use only a clean, damp and soapy cloth. Do not pour any liquids on the unit. Do not use flammable liquid, solvents or abrasive powders: these can damage the casing.	
Avoid any contact with sources of heat, as hot air can damage the unit casing. Clean the infrared control using a damp cloth.	

9-2 INDOOR COIL CLEANING

It is recommended to clean the coil at least at the beginning of each cooling season or when necessary.
First open the front panel and remove air filters.

- **Use a vacuum cleaner or a long-bristle brush to avoid damage to the coil fins.**
- **Watch the fin edges to avoid injury.**
- **Damage to the fins may cause reduced coil efficiency resulting in increased running costs.**
- **Use of liquid or aerosol solvents must be avoided. Use of these substances will cause serious damage to the panels and electric parts.**



10. PERIODICAL CHECKS

⚠ **WARNING:**

It is necessary to stop the air conditioner and disconnect the power supply before performing service and maintenance operations.

For a good operation of the air conditioner it is recommended to carry out periodic service and maintenance of the air conditioner or upon customer request through Carrier or Carrier authorized dealer.

Recommended service and maintenance works and intervals may vary depending on the installation environment, e.g. dusty zones, etc. see below table :

Indoor Unit	Every Month	Every Year
Clean air filters (3)	●(1)	
Clean drain pipe (2)		●
Change remote control batteries (4)		●
Outdoor Unit	**Every Month**	**Every Year**
Clean outdoor coil (2)		●
Blow air over electric parts (2)		●
Check electric connection tightening (2)		●
Clean fan wheel (2)		●
Check fan tightening (2)		●
Clean drain pan (2)		●

NOTES

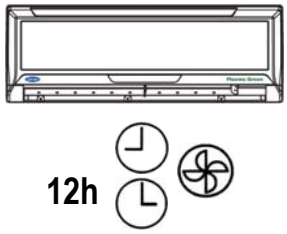
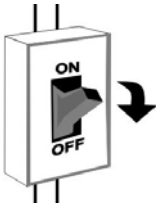
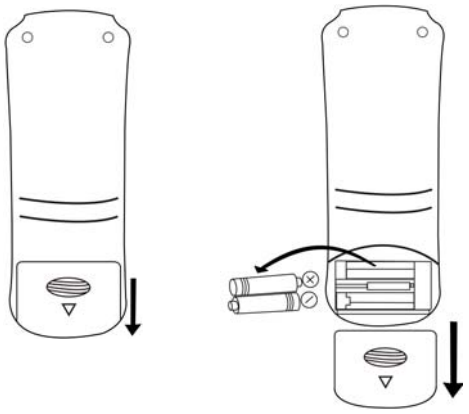
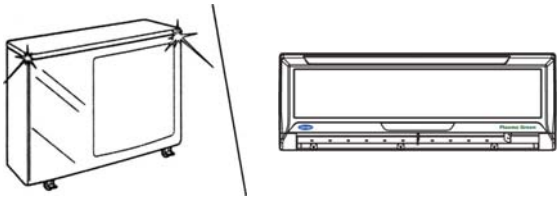
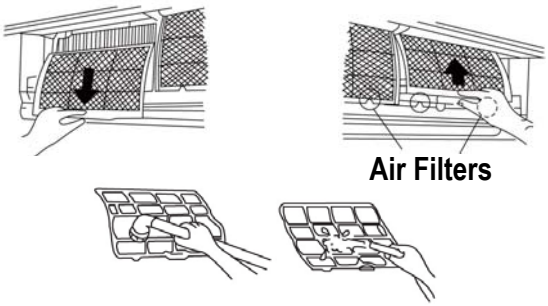
(1) Increase frequency in dusty zones.

(2) Service and maintenance works to be carried out by qualified service personnel.

(3) Cleaning air filters can be done by customer every month.

(4) Changing batteries of remote control can be done by customer every year.

11. CONSIDERATIONS BEFORE A LONG SHUTDOWN PERIOD OF AIR CONDITIONER

Keep the indoor unit in operation for half a day in the ventilation (fan only) mode in order to dry all internal parts.	
Switch electric mains supply off.	
Take batteries out of the remote control.	
Clean indoor and outdoor units.	
Clean the air filters and reposition them in the unit.	

12. OPERATION TIPS

The following events may occur during normal operation of the air conditioner :

1. A slight white mist (water vapor)coming out from the indoor unit during COOL mode

- **A white mist may generate due to a large temperature difference between air inlet and air outlet on COOL mode in an indoor environment that has a high relative humidity.**
  The cool air from the indoor unit is coming into contact with the room air.
- **A white mist may generate due to moisture generated from defrosting process when the air conditioner restarts in HEAT mode operation after defrosting.**

2. Low noise of the air conditioner

- **You may hear a low hissing sound when the air conditioner is running or has just stopped running. This sound is the sound of the refrigerant beginning to circulate or an adjustment of the refrigerant pressures after stopping.**
- **You can also hear a low short "squeak" when the indoor unit is in operation or when it has stopped. These are generally due to the temperature changes on the plastic parts (expansion or contraction).**
- **A noise may be heard due to louver restoring to its original position when power is first turned on.**

3. Dust is blown out from the indoor unit.

This is a normal condition when the air conditioner has not been used for a long time or during first use of the unit.

4. Unpleasant smells coming out from the indoor unit.

- **Unpleasant smells can be caused by substances accumulated in the air filters of indoor unit.**
- **In this case, you must switch the system off and air filters must be cleaned.**
- **Restart the indoor unit in ventilation (fan only) mode and open windows to change the room air.**

5. The air conditioner turns to FAN only mode from COOL mode or HEAT mode.

When indoor temperature reaches the temperature setting on air conditioner, the compressor will stop automatically, and the air conditioner turns to FAN only mode.
The compressor will start again when the indoor temperature rises on COOL mode or falls on HEAT mode to the set point.

6. Dripping water may generate on the surface of the indoor unit during COOL mode in a high relative humidity (higher than 80%).

Adjust the horizontal louvers to the maximum air outlet position and select HIGH fan speed.

7. Mist (water vapor) coming out from the outdoor unit during HEAT mode

It is normal in heat pump operation when defrost is automatically activated during heating operation at very low ambient temperature.

8. Lightning or a car wireless telephone operating nearby may cause the system to malfunction.

Disconnect the system with power and then re-connect the system with power again.
Press ON/OFF button on the remote control to restart operation.

13. TROUBLE SHOOTING

If you have problems with your room air conditioner, check this trouble-shooting guide before contacting Carrier or Carrier certified dealer.
If the abnormality persists and cannot be solved with the given instructions, turn off the air conditioner and does not try to turn it on again, call Carrier or Carrier certified dealer.

TROUBLE	POSSIBLE CAUSES	SOLUTIONS
After batteries have been placed into the remote control, the remote control can not operate the air conditioner.	Batteries are exhausted or have the wrong polarity.	Replace batteries or check polarity.
When pressing start button, unit does not acknowledge signal with a beep. OR When pressing stop button, unit does not acknowledge signal with a beep.	Main switch is OFF.	Switch it to ON position.
	Remote control batteries are exhausted.	Replace batteries.
	Remote control has not been pointed correctly to the receiver of unit.	Turn remote control OFF and repeat the operation in the correct direction.
	There are obstacles (curtains, walls, etc.) between the remote control and the unit	Repeat the operation after having removed the obstacles.
	Receiver on the unit or the remote control is under intense sun radiation.	Avoid direct sun on the unit, shut curtains or shades.
	Signal transmission is obstructed by severe interference from an electromagnetic field.	Avoid sending signals when computers or household appliances (Food processors, coffee makers, etc.) are operating close by cellular or cordless telephones may also interfere with the control.
Air conditioner will not start.	Main supply switch is OFF	Switch to ON
	Fuses or main switch are blown	Replace fuses
	Protection against frequent compressor cycling is ON	Wait for 3 minutes.
	Set temperature is higher than the room temperature in the cool mode or lower than the room temperature in heat mode.	Correct set temperature.
Air conditioner does not cool the room adequately.	Air flow cannot circulate freely	Remove obstructions.
	Dirty filters reduce air quantity circulating.	Clean air filters
	Doors and/or windows are open.	Close doors and windows
	Fan speed has been set to “Low”	Set fan speed at high speed.
	Set temperature is high in the cool mode.	Correct selected temperature.
	Incidence of strong sun rays in the room	Use shut curtains or shades
	Unit wrongly selected for the room	Redefines adequate unit for the room.
Air conditioner stops during cooling	TIMER OFF function is working	Cancel TIMER OFF function
	Room temperature is lower than set temperature	Normal operation
Ice or frost forms on the indoor coil during cooling	Insufficient air circulation	Remove obstructions in front of the unit
	Dirty air filters	Clean air filters

TROUBLE SHOOTING (Cont.)

TROUBLE	POSSIBLE CAUSES	SOLUTIONS
Air conditioner does not heat the room adequately.	Air flow cannot circulate freely	Remove obstructions.
	Dirty filters reduce air quantity circulating.	Clean air filters
	Doors and/or windows are open.	Close doors and windows
	Fan speed has been set to “Low”	Set fan speed at high speed.
	Set temperature is lower in heat mode.	Correct selected temperature.
	Unit wrongly selected for the room	Redefines adequate unit for the room.
Air conditioner stops during heating	TIMER OFF function is working	Cancel TIMER OFF function
	Room temperature is high than set temperature	Normal operation
A slight whistling noise is heard when is heard when the air conditioner starts or stops.	This is due to the refrigerant beginning to circulate or an adjustment of the refrigerant pressures.	Normal operation
Unpleasant smells coming from the unit.	Unpleasant smells can be caused by substances accumulated in the air filter	Switch the system OFF and contact an authorized service center to have the filters cleaned. Restart unit in the ventilation (fan only) mode and open windows to change room air.
Strange noises coming from the unit.	Occasionally the unit can emit some strange short noises during operation or when it has stopped. These are generally due to the of temperature changes on the plastic parts.	Normal operation
Water dripping inside the room to be air conditioned.	Clogged drain	Remove the obstructions from the drain
	Incorrect installation	Correct the installation as described in installation manual
Malfunction appears on the display panel of indoor unit. Leds status refers to malfunction.	Before contacting service center of Carrier or one of Carrier authorized dealers, make the following checks: ▪ Air filters are clean. ▪ Air circulation of indoor unit is not obstructed. ▪ Air circulation of outdoor unit is not obstructed.	If checks are OK, call service center of Carrier or one of Carrier authorized dealers.

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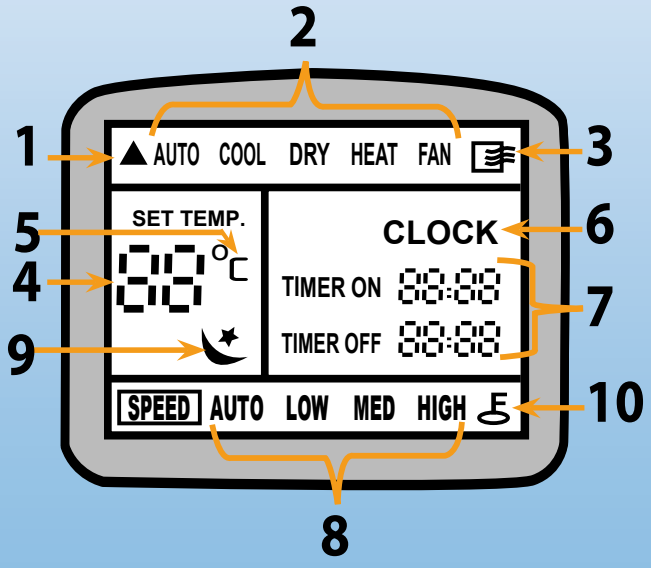
Elite
Plasma Green
Hi Wall Split System
Display Of Remote Control

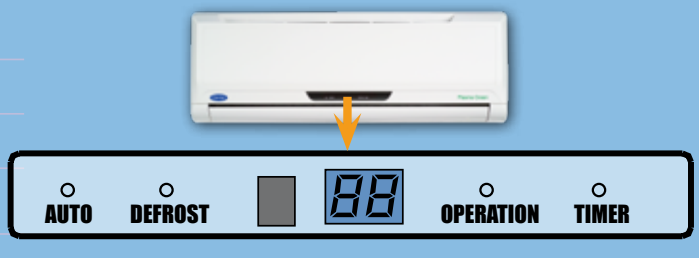


Display of Remote Control

1	Signal transmission indicator
2	Operating mode indicator
AUTO	Automatic (heat pump model only)
COOL	Cooling and dehumidification
DRY	Dehumidification only
HEAT	Heating (heat pump models only)
FAN	Ventilation (fan only)
3	ON/OFF indicator
4	SET TEMP. indicator
5	Temperature unit of measurement (°C or °F)
6	Current time
7	ON TIMER or OFF TIMER
8	FAN SPEED indicator
AUTO	AUTO FAN SPEED indicator
LOW	LOW FAN SPEED indicator
MED	MED FAN SPEED indicator
HIGH	HIGH FAN SPEED indicator
9	ECO function indicator
10	LOCK function indicator

Display Panel Of Indoor Unit

TIMER	TIMER function indicator
OPERATION	OPERATION indicator
88	SET TEMP. indicator
■	Remote control signal receiver
DEFROST	Cold Draft or Defrost indicator
AUTO	AUTO MODE indicator



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Wireless Remote Control

Control Buttons

1	**MODE selection button** AUTO - COOL - DRY - HEAT (only with heat pump) - FAN
2	**Decrease temperature button** The set temperature is decreased down to 17°C. Each time the button is pressed, the set temperature is de-creased by 1°C.
3	**Increase temperature button** the set temperature is increased up to 30°C. Each time the button is pressed, the set temperature is increased by 1°C.
4	**FAN SPEED selection button** Auto - Low - Medium - High fan speed
5	**ON/OFF button**
6	**AIR DIRECTION function button**
7	**SWING function button**
8	**ECO function button**
9	**TURBO function button**
10	**CLOCK function button**
11	**TIMER function button**
12	**CANCEL TIME function button**
13	**LED DISPLAY function button**
14	**RESET function button**
15	**F/C function button**